

**NOTE:** This unit must be "included in the Network" **only** where it will be permanently installed. The proper operation of this node in the mesh network is dependent on it knowing its location with respect to other nodes. You cannot "test bench" configure this module, then install.

## WIRELESS DOOR / WINDOW SENSOR

The GoControl family of Z-Wave™ certified wireless Security devices (siren/strobe, motion sensor, and door/window sensor) bring a new level of intelligent wireless capability to commercial and residential environments.

The Z-Wave wireless protocol is an international wireless standard for remote home automation, security and other applications. Embedded in each device, the Z-Wave smart chip enables two-way RF communication among hundreds of Z-Wave enabled devices, allowing products and services from multiple manufacturers to work seamlessly.

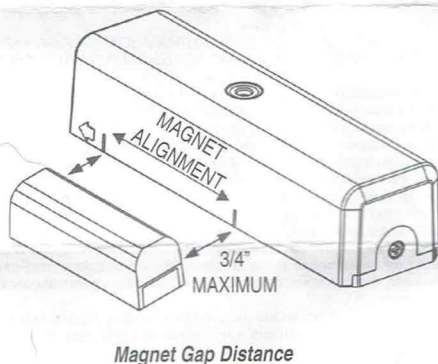
GoControl Z-Wave products are easy to install, and create an integrated wireless network with nearly limitless expansion and interoperability with security and health monitoring systems, energy management, home entertainment, appliances, and more.

The sensor monitors a door or window and sends Z-Wave signals when the door is opened or closed.

For indoor use only. Retain instructions for future use.

## INSTALLATION

If installing an entire Z-Wave system for the first time, refer to the installation guide of the Z-Wave Interface Controller before installing the door/window sensor.



### For "Inclusion" to (adding to) a network:

Refer to your Controller operating instructions to add the door/window sensor under the command of the Wireless Controller.

1. Unscrew the screw fastening the rear cover and slide the rear cover down.
2. Insert a CR123A battery into the battery compartment and LED will start to flash slowly, which means the door/window sensor has not yet performed "inclusion" with the Controller.
3. Prepare the Controller to include a unit to the network by adding it to a group (method of adding a node to the network). Refer to the Controller instructions.
4. If your Controller supports Network Wide Inclusion (NWI) locate the door/window sensor near the proposed installation location. If not, skip to Step 7.
5. With your Controller in Inclusion mode, press the sensor's Program/Tamper switch for 1 second and release. The LED will blink.
6. You should see an indication on your Controller that the "device was included" in the network. The LED will stop blinking. Skip to Step 10.

If the LED does not stop blinking, relocate the sensor to within 100 feet (line of sight) of a Z-Wave device or your hub and repeat Step 5. If the LED continues to blink, your Controller does not support NWI and continue with Step 7.

7. Place the door/window sensor within 3 feet of the Controller.
8. With your Controller in Inclusion mode, depress the sensor's Program/Tamper switch for 1 second then release.
9. You should see an indication on your Controller that the "device was included" in the network. The LED will stop blinking.
10. The device will appear in the list of Switches. It should display "binary switch".

✓ **NOTE:** If you have trouble adding the sensor to a group it may be that the Home ID and Node ID were not cleared from it after testing. You must first "RESET UNIT" with your Controller to remove it from the network. Although adding it to a group includes it in the network, removing it from a group does not remove it from the network. "RESET UNIT" removes it completely from the network.

### For "Association" with another device:

The door/window sensor supports one association group with up to 5 nodes.

1. Set up the Z-Wave™ Interface Controller into "association" mode, and following its instruction to associate the sensor with another device.
2. Open the door/window sensor case to "wake" the unit. In the Controller, associate the sensor with the other device.
3. Close the door/window sensor case.

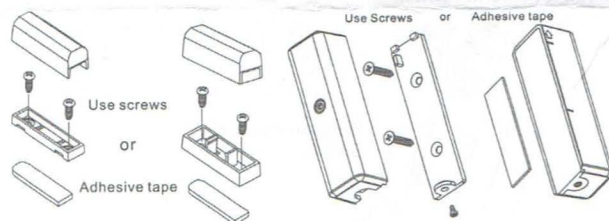
### For "Exclusion" from (removing from) a network:

1. Set up the Z-Wave™ Interface Controller into "exclusion" mode, and following its instruction to delete the sensor from the Controller.
2. Press the Program/Tamper switch of sensor for 1 second and release to be excluded. The LED light will flash continuously when the sensor is in the Exclusion condition.



## Mounting

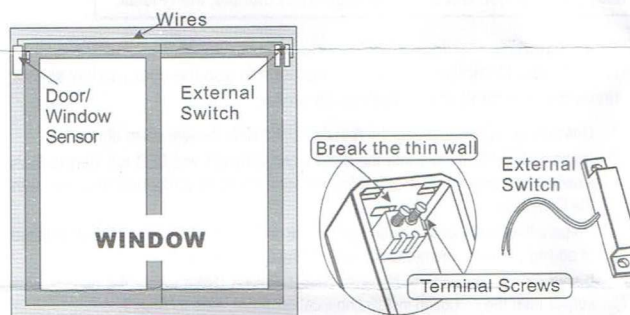
1. Use the screws or adhesive tape to attach the rear cover to the frame along the opening edge of the door or window.
2. Attach the magnet to the door or window adjacent to the marks on the sensor (see illustration) BE SURE THE MAGNET IS NO FURTHER THAN 3/4" FROM THE SENSOR WHEN THE DOOR OR WINDOW IS CLOSED.



## External Contact

To monitor an additional opening, an external normally closed switch contact can be connected to the sensor's external input terminals.

1. To allow clearance for the external contact wires, break out the thin plastic wall of the sensor case near the terminals.
2. Loosen the two terminal screws, insert the wires from the external contact into the two terminals and tighten the two screws.



## BASIC OPERATION

- During normal operation with the door or window closed, the detector's red LED will be off.
- When the magnet moves away from the sensor as the door or window opens, the sensor will send an alarm signal to any associated nodes and the red LED will flash once.
- When the magnet moves back towards the sensor as the door or window closes, the sensor will send a restore signal to any associated nodes and the red LED will flash once.
- The sensor is equipped with a tamper switch. If the sensor is removed from the mounting plate, it will send a tamper alarm signal and the red LED will light constant.

See the table below for the alarm signal types and values.

Alarm Type	Internal Switch	0x07
	Tamper Switch	
Alarm Event	External Switch	0x02
	Internal Switch	
	Tamper Switch	0x03
	External Switch	
Alarm Level	Internal Switch	Close: 0x00; Open 0xFF
	Tamper Switch	
	External Switch	Close: 0x00; Open 0xFF
	Internal Switch	

## SPECIFICATIONS

Battery	CR123A Lithium Battery
Frequency	908.42 MHz
Operating Temp	5°F ~ 140°F / -15°C ~ 60°C
Repeater	No
Range	Up to 100 feet line of sight between the Z-Wave Controller and/or the closest Z-Wave Repeater

## INTEROPERABILITY WITH Z-WAVE DEVICES

A Z-Wave network can integrate devices of various classes, and these devices can be made by different manufacturers, just as the door/window sensor can be incorporated into existing Z-Wave networks.

## PACKAGE CONTENTS

- Door/window sensor with mounting bracket
- Magnet with mounting bracket
- Double-sided mounting tape
- CR123A Battery
- 4x Screws for mounting
- Installation Manual

## REGULATORY INFORMATION

The sensor is certified to comply with applicable FCC and IC rules and regulations governing RF and EMI emissions. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference received that may cause undesired operation.

### FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician to help.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

### IC Notice

This Class B digital apparatus complies with Canadian ICES-003

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

## LINEAR RETAIL LIMITED WARRANTY AND REPAIR POLICY

Linear LLC warrants its products to be free from defects in material and workmanship for a period of (1) year from the date of purchase. The Company within said period shall at its option, either repair or replace free of charge, any product or part thereof found, upon the Company's inspection, to be so defective, and will return the repaired or replaced product to the purchaser at Company's expense.

The Company's maximum liability hereunder is limited to the purchased price of the product. There are no obligations or liabilities on the part of Linear LLC for consequential damages arising out of or in connection with use or performance of the product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

All implied warranties, including implied warranties for merchantability and implied warranties for fitness, are valid only until warranty expiration date from date of purchase. This Linear LLC Warranty is in lieu of all other warranties express or implied. Some states and countries do not allow limitations on how long an implied warranty lasts or the exclusion or limitation or incidental or consequential damages, so the above exclusions may not apply. The Linear LLC warranty gives specific legal rights in addition to other rights, which may exist and vary from state to state and country to country.

- All customers are required to call Linear Technical support to troubleshoot a product before it is eligible for return. Call 1-855-545-3279 to talk with a technical support engineer. If the product is deemed defective they will provide a tech ticket as a reference for return.
- All products returned for warranty repair service or reported in a warranty claim, per the guidelines above, require a Return Product Authorization Number (RPA#). Contact Linear Returns at 1-855-545-3351 or send an e-mail to [returns@linearcorp.com](mailto:returns@linearcorp.com) for an RPA#. Proof of purchase and a Tech Ticket are required to receive a RPA#.
- Devices must be sent to the Company at owner's expense and be accompanied with statement of defect and proof of purchase.
- For products requiring return to Linear LLC, specific packing, labeling, shipping and tracking policies apply. These will be provided and reviewed as needed before product is returned.
- Product may be inspected and tested by Linear LLC and if found to be in working condition and not defective will be returned to the customer in the condition received.
- The user is responsible for all labor costs associated with removing and reinstalling the product. Linear LLC, at its option and per the guidelines above, will repair or replace the defective product.
- Replacements will be made from refurbished stock. If an exact replacement is not available Linear LLC, at its option will select the nearest equivalent product. The user is responsible for freight charges to Linear LLC.
- Linear LLC will return warranted repaired or ship replacements by UPS Ground or an equivalent service. A customer may pay the additional costs for second day or next-day service.

There is NO PROVISION FOR LABOR COST OR OTHER REIMBURSEMENTS OF ANY KIND. IN NO EVENT WILL LINEAR ACCEPT RETURNS OF ANY PRODUCT THAT HAS BEEN DISCONTINUED OR THAT HAS BEEN REVISED OR UPDATED.

Defective products are covered by the warranty with the following exceptions:

- Failures due to product abuse, negligence, non-factory authorized modifications, improper installation, improper use, and electrical surge including damage from lightning, water damage or other damage due to natural disasters are not covered by the warranty.
- The warranty shall also be voided by any tampering with the date code, labels or other markings on the product.
- The warranty does not apply to: (i) damage incurred in shipping or handling; (ii) damage caused by disaster such as fire, flood, wind, earthquake or lightning; (iii) damage due to causes beyond the control of Linear such as excessive voltage, mechanical shock or water damage; (iv) damage caused by unauthorized attachment, alterations, modifications or foreign objects being used with or in conjunction with the Product; (v) damage caused by peripherals, sensors or other products used in connection with the Products (except for Products supplied by Linear); (vi) defects caused by failure to provide a suitable installation environment for the Products; (vii) damage caused by use of the Products for purposes other than those for which they were designed; (viii) damage from improper maintenance; (ix) damage arising out of any other abuse, mishandling or improper application of the Products; (x) damage resulting from disassembly or repair in such a manner as to adversely affect performance or prevent adequate inspection or testing to verify any warranty claim.
- Products that are damaged in transit to Linear LLC due to improper packaging or by the carrier (shipping company) will not be covered under the warranty. If the product was damaged or lost by the carrier, it is the sender's responsibility to create a claim against the carrier.